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CLAIMS

What is claimed is:

1. A shock absorber comprising;
a magnetized plunger;
a conductive coil disposed about said magnetized plunger, forming a circuit;
and
a vehicle ground with one of said magnetized plunger and said coil fixed to
move with said vehicle ground support, and said coil being selectively actuated to
provide a magnetic force resisting movement of said vehicle ground support.
2. The shock absorber of Claim 1 wherein said vehicle ground support is attached
to said magnetized plunger.
3. The shock absorber of Claim 1 wherein said conductive coil creates said
electromagnetic field about said magnetized plunger so as to slow its movement.
4. The shock absorber of Claim 1 wherein said magnetized plunger generates a
current in said coil by the movement of said magnetized plunger.
5. The shock absorber of Claim 4 including a battery in communication with said
circuit.
6. The shock absorber of Claim 5 wherein said battery stores electric energy
generated by the movement of said magnetized plunger relative to said coil.
7. The shock absorber of Claim 1 wherein said circuit comprises a switching
circuit.
8. The shock absorber of Claim 7 wherein said switching circuit includes a field
effect transistor.

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11. A shock absorber comprising;
a magnetized plunger;
a conductive coil disposed about said magnetized plunger, forming a circuit;
and
a wheel connected to move with said magnetized plunger and said coil
selectively actuated to resist movement of said magnetized plunger and hence said
wheel; and
a control sensing movement of said wheel and actuating said coil when
resistance is desired.
12. The shock absorber of Claim 11 wherein said magnetized plunger generates a
current in said coil by the movement of said magnetized plunger.
13. The shock absorber of Claim 12 including a battery in communication with said
circuit.
14. The shock absorber of Claim 13 wherein said battery stores electric energy
generated by the movement of said magnetized plunger about said coil.
15. The shock absorber of Claim 11 wherein said circuit comprises a switching
circuit.
16. The shock absorber of Claim 15 wherein said switching circuit includes a field
effect transistor.
17. The shock absorber of Claim 16 wherein said switching circuit switches at a
higher frequency than the frequency of movement of said magnetized plunger.

18. A method of shock absorption comprising the steps of:
moving a wheel in a first direction;
generating an electromagnetic force in a second direction opposing said first
direction; and
controlling the movement of the wheel through the electromagnetic force.

19. The method of Claim 18 including the step of generating electromagnetic energy
from the movement of the magnetized plunger.

20. The method of Claim 19 including the step of storing the electromagnetic
energy.

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